Job Title: Nucleotide sequence (238 letters)

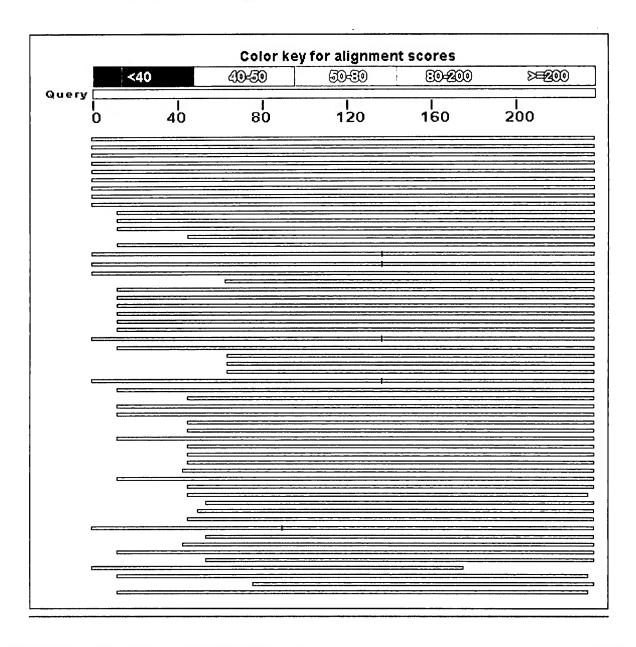
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BLASTN 2.2.16 (Mar-25-2007)

RID: 7ZDFWYZJ014 **Database**: All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS,environmental samples or phase 0, 1 or 2 HTGS sequences) 5,413,143 sequences; 20,916,285,690 total letters

Query= Length=238

Distribution of 105 Blast Hits on the Query Sequence



Legend for links to other resources: U UniGene E GEO G Gene S Struct Sequences producing significant alignments: (Click headers to sort columns) 90% AF271632.1 Hepatitis C virus polyprotein gene, 318 318 100% 5ecomplete cds 84 100% 90% Hepatitis C virus genomic RNA, 3' 316 316 2e-AF009072.1 83 nonstranslated region, partial sequence. clone #74 AF177040.1 Synthetic construct clone pH77(p7)-J6S300 300 100% 2e-90% hepatitis C virus, complete genome 78 Synthetic construct clone pH77-J6S AF177039.1 300 300 100% 2e-90% 78 hepatitis C virus, complete genome 2e-AF177038.1 Synthetic construct clone pH77(p7)CV-300 300 100% 90% 78 J6S hepatitis C virus, complete genome Synthetic construct clone pH77CV-J6S 300 100% 2e-90% AF177037.1 300 hepatitis C virus, complete genome 78 Hepatitis C virus strain H77 pH21 100% 2e-90% AF011753.1 300 300 78 polyprotein gene, complete cds 2e-Hepatitis C virus strain H77 pCV-H11 300 300 100% 90% AF011752.1 polyprotein gene, complete cds 78 Hepatitis C virus strain H77 pCV-H77C 300 300 100% 2e-90% AF011751.1 78 polyprotein gene, complete cds Hepatitis C virus isolate HCR6, 296 296 948 2e-90% AY045702.1 complete genome 77 Hepatitis C virus strain HCV-N, 294 294 948 8e-90% AF139594.2 77 complete genome 90% Hepatitis C virus gene for Fusion 289 289 94% 4e-AB119282.1 protein, Feo, complete cds 75 92% 272 81% 4e-D84265.2 Hepatitis C virus (isolate VN004) 272 70 genomic RNA, complete genome 272 272 94% 4e-888 AB049089.1 Hepatitis C virus gene for 70 polyprotein, complete cds, isolate: HCVT109 426 100% le-91% AF387806.1 Synthetic construct HCV type 1a 69 polyprotein mRNA, complete cds AF009606.1 Hepatitis C virus polyprotein gene, 270 426 100% 1e-91% 69 complete cds 270 270 100% 1e-888 Hepatitis C virus genomic RNA, 3' AF009070.1 69 nonstranslated region, partial sequence. clone #8 267 73% 2e-94% Hepatitis C virus type 1b polyprotein 267 AF333324.1 68 mRNA, complete cds AF356827.1 Hepatitis C virus isolate HCV-S1, 263 263 948 2e-87% complete genome 67 AB049090.1 Hepatitis C virus gene for 261 261 948 8e-888 67 polyprotein, complete cds, isolate: HCVT140 Hepatitis C virus genomic RNA for 261 261 948 8e-87% D85021.1 3'UTR 67 3e-259 94% 888 Synthetic construct HCV type 1a/1b 259 AF387808.1 66 chimera mutant polyprotein mRNA, complete cds AF387807.1 Synthetic construct HCV type la/lb 259 259 948 3e-888

	chimera polyprotein mRNA, complete cds				66	
AF387805.1	Synthetic construct HCV type 1a/1b chimera polyprotein mRNA, complete cds	259	259	94%	3e- 66	88%
S82227.1	Hepatitis C virus NS5B (NS5B) gene, partial cds	259	415	100%	3e- 66	90%
D63922.1	Hepatitis C virus genomic RNA, 3' UTR	259	259	94%	3e- 66	87%
AF054249.1	Hepatitis C virus HC-J4, pCV-J4L4S, complete genome	259	259	73%	3e- 66	93%
AF054248.1	Hepatitis C virus HC-J4, pCV-J4L2S, complete genome	259	259	73%	3e- 66	93%
AF054247.1	Hepatitis C virus HC-J4, pCV-J4L6S, complete genome	259	259	73%	3e- 66	93%
AF009071.1	Hepatitis C virus genomic RNA, 3' nonstranslated region, partial sequence. clone #10	259	415	100%	3e- 66	90%
AB049088.1	Hepatitis C virus genomic RNA, complete genome, isolate: HCVT094	257	257	94%	1e- 65	87%
D84263.2	Hepatitis C virus (isolate VN235) genomic RNA, complete genome	255	255	81%	4e- 65	90%
D67094.1	Hepatitis C virus genomic RNA, 3'terminus partial sequence, clone: #12	255	255	94%	4e- 65	87%
AF176573.1	Hepatitis C virus polyprotein precursor, gene, complete cds	254	254	94%	1e- 64	87%
AB049101.1	Hepatitis C virus gene for polyprotein, complete cds, isolate: HCVT221	254	254	81%	1e- 64	90%
AF009076.1	Hepatitis C virus genomic RNA, 3' nonstranslated region, partial sequence. clone #27	254	254	81%	1e- 64	90%
D85020.1	Hepatitis C virus genomic RNA for 3'UTR	254	254	94%	1e- 64	87%
AB049095.1	Hepatitis C virus gene for polyprotein, complete cds, isolate: HCVT169	252	252	81%	5e- 64	90%
AB049091.1	Hepatitis C virus gene for polyprotein, complete cds, isolate: HCVT142	250	250	81%	2e- 63	90%
AB047645.1	Hepatitis C virus gene for polyprotein, complete cds, clone:JCH-6	250	250	81%	2e- 63	89%
D85025.1	Hepatitis C virus genomic RNA for 3'UTR	248	248	81%	6e- 63	90%
D85022.1	Hepatitis C virus genomic RNA for 3'UTR	246	246	94%	2e- 62	86%
AF169003.1	Hepatitis C virus isolate G2aK1 polyprotein gene, complete cds	243	243	81%	3e- 61	89%
AF009075.1	Hepatitis C virus genomic RNA, 3' nonstranslated region, partial sequence. clone #16	243	243	79%	3e- 61	89%
D85024.1	Hepatitis C virus genomic RNA for 3'UTR	243	243	77%	3e- 61	90%
D67092.1	Hepatitis C virus genomic RNA, 3'terminus partial sequence, clone: #6	243	243	78%	3e- 61	90%
AF177036.1	Hepatitis C virus clone pJ6CF, complete genome	241	241	81%	1e- 60	89%
AF009069.1	Hepatitis C virus genomic RNA, 3' nonstranslated region, partial	241	340	100%	1e- 60	94%

	sequence. clone #1.2					
AB191333.1	Hepatitis C virus genomic RNA, complete genome, strain:0	239	239	77%	4e- 60	90%
D84264.2	Hepatitis C virus (isolate VN405) genomic RNA, complete genome	239	239	81%	4e- 60	89%
AJ278830.1	Hepatitis C virus genomic RNA for polyprotein gene	239	239	94%	4e- 60	86%
AB080299.1	Hepatitis C virus genomic RNA, complete genome, isolate:M1LE	239	239	77%	4e- 60	90%
AF009073.1	Hepatitis C virus genomic RNA, 3' nonstranslated region, partial sequence. clone #5	239	239	73%	4e- 60	918
DQ071885.1	Hepatitis C virus polyprotein mRNA, complete cds	237	237	93%	1e- 59	86%
AY460204.1	Hepatitis C virus from Shanghai, complete genome	237	237	68%	1e- 59	93%
AJ238799.1	Hepatitis C virus type 1b complete genome, isolate Con1	237	237	93%	1e- 59	86%
AJ242651.1	Hepatitis C virus replicon I377/NS2-3'UTR	237	237	93%	1e- 59	86%
AJ242654.1	Hepatitis C virus replicon I389/NS3-3'UTR	237	237	93%	1e- 59	86%
AJ242653.1	Hepatitis C virus replicon I389/NS2-3'UTR	237	237	93%	1e- 59	86%
AJ242652.1	Hepatitis C virus replicon I377/NS3-3'UTR	237	237	93%	1e- 59	86%
AF009074.1	Hepatitis C virus genomic RNA, 3' nonstranslated region, partial sequence. clone #19	237	237	73%	1e- 59	91%
D85023.1	Hepatitis C virus genomic RNA for 3'UTR	237	237	73%	1e- 59	91%
D85018.1	Hepatitis C virus genomic RNA for 3'UTR	235	235	73%	5e- 59	91%
D67091.1	Hepatitis C virus genomic RNA, 3'terminus partial sequence, clone: 1090CONS	235	235	69%	5e- 59	92%
D84262.2	Hepatitis C virus (isolate Th580) genomic RNA, complete genome	231	231	81%	6e- 58	88%
AB047644.1	Hepatitis C virus gene for polyprotein, complete cds, clone:JCH-5	230	230	81%	2e- 57	88%
D85019.1	Hepatitis C virus genomic RNA for 3'UTR	230	230	73%	2e- 57	91%
D85016.1	Hepatitis C virus genomic RNA for 3'UTR	230	230	73%	2e- 57	91%
AF169005.1	Hepatitis C virus isolate NDM59 polyprotein gene, complete cds	228	228	81%	8e- 57	88%
D85017.1	Hepatitis C virus genomic RNA for 3'UTR	228	228	72%	8e- 57	91%
AF169002.1	Hepatitis C virus isolate NDM228 polyprotein gene, complete cds	226	226	78%	3e- 56	89%
D85026.1	Hepatitis C virus genomic RNA for 3'UTR	226	226	81%	3e- 56	88%
D67096.1	Hepatitis C virus genomic RNA, 3'terminus partial sequence, clone: 72CONS	226	226	80%	3e- 56	88%
AB237837.1	Hepatitis C virus full-length replicon pFGR-JFH1 RNA, complete sequence	224	224	81%	1e- 55	87%
	·					

AB047639.1	Hepatitis C virus (isolate JFH-1) genomic RNA, complete genome	224	224	81%	1e- 55	87%
AB114136.1	Hepatitis C virus replicon pSGR-JFH1 gene for neomysin resistance gene product, hepatitis C virus nonstructural protein, complete cds	224	224	81%	1e- 55	87%
D67095.1	Hepatitis C virus genomic RNA, 3'terminus sequence	219	219	72%	5e- 54	89%
AB030907.1	Hepatitis C virus (isolate JPUT971017) genomic RNA, complete genome	217	217	73%	2e- 53	89%
AY746460.1	Hepatitis C virus genotype 2a polyprotein gene, complete cds	215	215	81%	6e- 53	87%
AF169004.1	Hepatitis C virus isolate G2aK3 polyprotein gene, complete cds	215	215	73%	6e- 53	89%
AB047640.1	Hepatitis C virus gene for polyprotein, complete cds, clone:JCH-1	215	215	81%	6e- 53	87%
AB047642.1	Hepatitis C virus gene for polyprotein, complete cds, clone:JCH-3	206	206	82%	4e- 50	85%
AB047641.1	Hepatitis C virus gene for polyprotein, complete cds, clone:JCH-2	206	206	71%	4e- 50	88%
D67093.1	Hepatitis C virus genomic RNA, 3'terminus partial sequence, clone: #9	202	202	63%	5e- 49	92%
AF009077.1	Hepatitis C virus genomic RNA, 3' nonstranslated region, partial sequence. clone #23	198	198	62%	7e- 48	91%
AB047643.1	Hepatitis C virus gene for polyprotein, complete cds, clone:JCH-4	193	193	65%	3e- 46	88%
AB001040.1	Hepatitis C virus (subtype:1b) genomic RNA for polyprotein and 3'UTR, partial cds		193	51%	3e- 46	95%
AB016785.1	Hepatitis C virus genomic RNA, complete sequence	191	191	48%	1e- 45	96%
D89815.1	Hepatitis C virus genomic RNA, complete sequence	189	189	58%	4e- 45	91%
D85516.1	Hepatitis C virus genomic RNA, complete cds	187	187	51%	1e- 44	94%
AJ132997.1	Hepatitis C virus, complete genome, isolate HCV-AD78P1	183	183	52%	2e- 43	92%
DQ321850.1	Hepatitis C virus isolate plasma X clone 20 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321849.1	Hepatitis C virus isolate plasma X clone 19 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321848.1	Hepatitis C virus isolate plasma X clone 18 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321847.1	Hepatitis C virus isolate plasma X clone 17 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321846.1	Hepatitis C virus isolate plasma X clone 16 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321845.1	Hepatitis C virus isolate plasma X clone 15 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321844.1	Hepatitis C virus isolate plasma X clone 14 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321843.1	Hepatitis C virus isolate plasma X clone 13 X-tail 3' UTR	176	176	41%	3e- 41	98%
DQ321842.1	Hepatitis C virus isolate plasma X clone 12 X-tail 3' UTR	176	176	41%	3e- 41	98%

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        Sbjct 9435
        c-ttttctctttttt--cttctttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAG
    116
Query
Sbjct 9495
        .T....T.T.....CC...-...-...
        CTGTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGA
Sbjct
    9553
        Query
    233
             238
        TCATGT
Sbjct 9613
             9618
        . . . . . .
>qb|AF009072.1|AF009072 Hepatitis C virus genomic RNA, 3' nonstranslated r
sequence. clone #74
Length=321
Score = 316 bits (171), Expect = 2e-83 Identities = 222/244 (90%), Gaps = 13/244 (5%)
Strand=Plus/Plus
       Query 1
Sbict 85
        Query
    61
       Sbjct
    141
       .ČČČ.......TT...
    120
       t-c--tctttt--tttcttctttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCT
Ouerv
    198
Sbict
       GTGAAAGGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATC
    175
Query
Sbjct
    258
        235
       ATGT 238
Sbjct 318 .... 321
>qb|AF177040.1| Synthetic construct clone pH77(p7)-J6S hepatitis C virus,
génome
Length=9611
Score = 300 bits (162), Expect = 2e-78 Identities = 215/238 (90%), Gaps = 13/238 (5%)
Strand=Plus/Plus
        Ouerv
Sbjct 9387
        .....G.-....-...
        Query
    61
Sbjct 9445
        ctctttttttttttttttATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAA
    121
Sbjct 9495
        GGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 23
Query 181
Sbjct 9554
>qb|AF177039.1| Synthetic construct clone pH77-J6S hepatitis C virus, comp
genome
Length=9611
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Score = 300 bits (162), Expect = 2e-78 Identities = 215/238 (90%), Gaps = 13/238 (5%)
Strand=Plus/Plus
        Query
Query 1
Sbjct 9387
        61
        Query
    9445
Sbjct
        121
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Query
Sbjct 9495
        GGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 23
    181
Query
Sbjct 9554
>qb|AF177038.1| Synthetic construct clone pH77(p7)CV-J6S hepatitis C virus
genome
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                 Expect = 2e-78
Identities = 215/238 (90%), Gaps = 13/238 (5%)
Strand=Plus/Plus
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\tilde{\mathbf{S}}bjct \bar{9}387
                  Query
    61
        Sbjct 9445
          Query
    121
        ctcttttttttttttttttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAA
Sbjct 9495 -.....CC......
        GGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT
    181
Query
Sbjct 9554
                                               96
>qb|AF177037.1| Synthetic construct clone pH77CV-J6S hepatitis C virus, co
genome
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Strand=Plus/Plus
        Query
61
        Query
    9445
        Sbjct
        etetttttttttttttttATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAA
Query 121
Sbjct 9495
        GGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 23
    181
Query
   9554
Sbjct
>gb|AF011753.1|AF011753 Hepatitis C virus strain H77 pH21 polyprotein gene
cās
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Sbjct 9375
        Query
    61
    9433
        Sbjct
        \verb|ctcttttttttttttttttttAATGGTGGCTCCATCTTAGCCCTAGTCACGGCTAGCTGTGAAA||
    121
Query
    9483
Sbjct
       -.....CC.....cc
    181
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Query
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Sbjct
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7

>gb|AF011752.1|AF011752 Hepatitis C virus strain H77 pCV-H11 polyprotein g http://www.ncbi.nlm.nih.gov/BLAST/Blast.cgi 6/25/07

cds

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Query 181
Sbjct 9542
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      >qb|AF011751.1|AF011751 Hepatitis C virus strain H77 pCV-H77C polyprotein
cds
Length=9599
Score = 300 bits (162), Expect = 2e-78

Identities = 215/238 (90%), Gaps = 13/238 (5%)
Strand=Plus/Plus
      Query
Query 121
Sbjct 9483
GGTCCGTGAGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT 23
>qb|AY045702.1| Hepatitis C virus isolate HCR6, complete genome
Length=9611
Score = 296 bits (160), Expect = 2e-77 Identities = 206/228 (90%), Gaps = 4/228 (1%)
Strand=Plus/Plus
72
Query
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Query 131
Sbict 9505
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Ouerv
Sbjct 9564
                               9611
      >qb|AF139594.2| Hepatitis C virus strain HCV-N, complete genome
Length=9616
Score = 294 bits (159), Expect = 8e-77 Identities = 209/230 (90%), Gaps = 16/230 (6%)
Strand=Plus/Plus
Ouerv
Sbjet 9453
      -....T..C...-.T...
Query 130
Sbjct 9508
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      AGCCGCATGACTGCAGAGAGTGCTGATACTGGCCTCTCTGCAGATCATGT
Query
Sbjct 9567
      9616
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WEST Search History



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DATE: Monday, June 25, 2007

Hide?	Set Name	Query	<u>Hit</u> Count
	DB=P	GPB, USPT, EPAB, JPAB, DWPI; PLUR=YES; OP=OR	
	L16	L15 and 19	162
	L15	restriction same (subclon\$ or sub adj clon\$4) and substitution with restriction	682
F	L14	L12 and l10	2
П	L13	L12 amd 110	16840
П	L12	19 and replicon same (virus or viral)	34
	L11	19 and replicon same (HCV or hepatitis adj c)	1
r	L10	L9 and restriction same (replicon or vector) same (silent)	83
	L9	substitution same restriction same (amino adj acid or coding or silent) and (@ad<2000416 or @pd<20020416) and restriction same (replicon or vector)	1014
	L8	16 and substitution same restriction same (amino adj acid or coding or silent)	11
	L7	16 and (@ad<2000416 or @pd<20020416)	2
	L6	(HCV or hepatitis adj C) same replicon and replicon same restriction same site	69
	L5	(HCV or hepatitis adj C) same replicon and restriction same site	241
	L4	L3 and (@ad<2000416 or @pd<20020416)	3
	L3	L1 and L2	153
	L2	(HCV or hepatitis adj C) same replicon AND (UTR or 3') same (1a or H77)	180
	L1	(HCV or hepatitis adj C) same replicon AND (replicon or HCV or virus) same (1a or H77)	223

END OF SEARCH HISTORY